

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A solar water pasteurizer comprising:

a flexible water-tight resealable container, wherein said container comprises a top and a bottom, wherein said bottom comprises at least one resealable opening, wherein said resealable opening comprises at least one water-tight spout with a mating resealable cap, wherein said resealable cap comprises a bracket for receiving one or more reuseable temperature indicators for indicating the temperature history of the water contained therein, and wherein said temperature indicator is a glass tube containing wax therein that melts at pasteurization temperatures;

one or more energy converting structures therein, as an integral part of said container,

a first insulation structure on the top of said container, wherein said first insulation structure comprises gas contained within air-tight structures, and

a second insulation structure on the bottom of said container, wherein said second insulation structure is selected from gas contained within air-tight structures, closed cell foam or open cell foam,

wherein said insulation structures collectively are sufficient to enable said pasteurizer to achieve water temperatures of at least 60° C, wherein said insulation structures are an integral part of said container.

2. (Canceled)

3. (Previously presented) A water pasteurizer according to claim 1, wherein said container comprises a polymeric material.

4-5. (Cancelled)

6. (Previously presented) A water pasteurizer according to claim 1, wherein said energy converting structure is darkly colored to enhance energy absorption thereof.

7. (Previously presented) A water pasteurizer according to claim 1, wherein said energy converting structure is black.

8. (Cancelled)

9. (Previously presented) A water pasteurizer according to claim 1, wherein said energy converting structure is flexible and expansive.

10. (Previously presented) A water pasteurizer according to claim 1, wherein said energy converting structure is pleated, or layered to maximize the surface area thereof.

11. (Cancelled)

12. (Previously presented) A water pasteurizer according to claim 1, wherein said energy converting structure is a two-sided panel.

13. (Previously presented) A water pasteurizer according to claim 12, wherein said panel is bonded to one or more interior surfaces of said container.

14. (Previously presented) A water pasteurizer according to claim 13, wherein said panel comprises flow structure that provides for flow of water from a first side of said panel to a second side of said panel.

15. (Previously presented) A water pasteurizer according to claim 14, wherein said panel comprises a perforated polymeric material.

16. (Cancelled)

17. (Previously presented) A water pasteurizer according to claim 1, wherein said insulating structure(s) comprise at least one inflatable airspace inside of said container.

18. (Previously presented) A water pasteurizer according to claim 1, wherein said insulating structure(s) comprise at least one inflatable airspace outside of said container.

19. (Previously presented) A water pasteurizer according to claim 1, wherein said insulating structure(s) comprise at least one inflatable airspace inside, and at least one inflatable airspace outside of said container.

20. (Previously presented) A water pasteurizer according to claim 1, wherein said insulating structure(s) are coextensive with said container.

21. (Previously presented) A water pasteurizer according to claim 1, wherein said insulating structure(s) on both the front and back of said container are inflatable.

22. (Previously presented) A water pasteurizer according to claim 1, wherein said first and/or second insulating structure comprises an energy reflective surface.

23-25. (Cancelled)

26. (Previously presented) A water pasteurizer according to claim 1, wherein said container comprises one or more hanging attachments to enable gravitational effects to dispel water.

27-36. (Cancelled)

37. (Previously presented) A method for the production of potable water, said method comprising exposing water contained within a water pasteurizer according to claim 1 to a suitable energy source for a time sufficient to pasteurize said water.

38. (Original) The method according to claim 37, wherein said suitable energy source is sunlight.

39. (Previously presented) A method for the pasteurization of water, said method comprising exposing water contained within a water pasteurizer according to claim 1 to a suitable energy source for a time sufficient to pasteurize said water.

40-42 (Cancelled)

43. (Previously presented) A method of assembly of a solar water pasteurizer, said method comprising:

stacking first, second and third sheets of a flexible polymeric material, bonding said sheets together at or near the perimeters of said sheets to create a three-ply structure, wherein said first and second sheets upon bonding, form a water-tight container containing therein said third sheet,

wherein at least said first sheet is transparent,

wherein said second sheet is insulated and has an energy reflective layer thereon, wherein said second sheet contains at least one water-tight spout with a mating cap, wherein said cap comprises a bracket for receiving one or more re-usable temperature indicators for indicating the temperature history of the water contained therein, intimately associated therewith, and

wherein said third sheet is an energy converting structure, and thereafter

stacking and bonding a fourth sheet of flexible polymeric material to said first sheet of material along the perimeter thereof, said fourth sheet providing a transparent insulating airspace.

44. (Original) A method of assembly according to claim 43, wherein said third sheet is perforated.

45-46. (Cancelled)

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47. (Previously presented) A method of assembly according to claim 43, wherein said fourth sheet comprises a second resealable opening for the inflation of said insulating airspace.

48-56. (Cancelled)